

ABSTRACT

The present invention is related to novel photopyrin compounds and the
5 pharmaceutically acceptable salt thereof useful as an anticancer or photodynamic
diagnostic agent by way of reproducing singlet state oxygen radical and the inventive
compounds have superior advantages such as excellent photon yield to produce singlet
oxygen, good physical stability and potent cell cytotoxicity to conventional
photosensitizer. The present invention also provides a pharmaceutical composition
10 comprising a novel photopyrin compound of formula (I) to (VII) or a
pharmaceutically acceptable salt thereof as an active ingredient for preventing or
treating various cancers such as stomach cancer, liver cancer, lung cancer, cervical
cancer and breast cancer in human or mammal together with a pharmaceutically
acceptable carrier.